CRAYON AUDIO GMBH

www.crayon-audio.com

CIA-1T

Operating Instructions

V1.05

English

CAUTION:

PreAmp Output: If you use the preamp output of the CIA-1T, please note the following switch on sequence;
At first switch on the CIA-1T. Only after completion switch on operation, then turn on the subsequent amplifier.

Caution! The output stages are implemented as bridge circuits. Therefore, all loudspeaker sockets carry a DC voltage of approx. 19V. The loudspeakers should NOT be connected to ground. This would destroy your loudspeakers. Hence, the loudspeakers should be connected only to banana sockets pairs. The same colour markings (red = + and black = -) are generally indicated on loudspeaker boxes.

The CIA-1T must be first switched to the Standby mode and then disconnected from the Mains voltage, before connecting to or disconnecting from the connectors at the back. Otherwise, voltage surges may result which could damage the CIA-1T or other components of the audio system or AV-systems connected.

This device must in no case be placed on a carpet or other similar surface. The heat sink is located on the device underside. The fibers of the carpet would impede the circulation of the air and the device runs hot. Please make the device only on smooth surfaces (tabletop, shelf, wooden floor or similar).

This device must be earthed. It is essential that the earthed power cable with integrally cast plug provided be used. Never use an unearthed plug or adaptor.

Subject to technical modifications!

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Declaration of Conformity - CE Communauté Européenne

Declaration of Conformity CE-Communauté Européenne
Crayon Audio GmbH affirms that this product fulfils the requirements of the low-voltage guidelines 73 / 23 / European Economic Community and the guidelines on electromagnetic compatibility 89 / 336 / European Economic Community which was changed by the guidelines 92 / 31 / European Economic Community and 93 / 68 / European Economic Community. The conformity of the said product with the regulations of the guidelines 73 / 23 / EEC (low-voltage guideline) is proved by total compliance to the following standards:

Standard / Date of Publication / Test
EN 60065 1998 General requirements Marking
Injurious radiation
Warming under normal conditions
Danger to touch under normal operation conditions
Isolation requirements Maloperation Mechanical rigidity
Parts with mains connection
Components
Terminal equipment
Electrical connections and mechanical mounting
Protection against electrical shock
Stability and mechanical risks
Fire resistance
The conformity of the said product with the regulations of the guideline 89 / 336 / European Economic Community
(electromagnetic compatibility) is proved by total compliance to the following standards:

Standard / Date of Publication / Test
EN 60065 Audio, video and similar electronic apparatus – Safety requirements
EN 55013 Sound and television broadcast receivers and associated equipment Radio disturbance characteristics Limits and methods of measurement
EN 55020 Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement

FCC-Notice:
Notice:
This device was tested according to part 15 of the FCC regulations and found to comply with the limits for Class B digital devices. These limit values should guarantee an adequate protection against harmful disturbances if the device is operated in residential areas. This device generates radio frequency energy and may cause interference to radio and television reception. The device can disturb the radio traffic if it is not installed in accordance to instructions and is used. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna
- Increase distance between the device and the receiver
- Connect the device to a different mains outlet so that receiver is on different branch circuit
- If necessary, the user should consult a specialized dealer or an experienced radio/television technician for additional suggestions.

Introduction

Dear Music Lover,

The CIA-1T. is an integrated amplifier developed after many many years of study and research. Our précis was simple; Create an integrated amplifier that within it's power rating, establishes itself by having a unique relationship to music and sound reproduction among today's components...And while maintaining said sonic excellence that we might through diligent effort, engineering expertise, and perhaps a small measure of technical finesse, make operation simple and lifelong enjoyment plausible.

As such, we have implemented a case that is precision machined from solid aircraft grade aluminium. Careful laser cutting and assembly lead to a beautifully finished component that's beauty is more than skin deep. Each design cue of the CIA-1T has not only form but function, and contributes to the purity of sound, and life-like quality one can obtain from Crayon. The case, rugged yet elegant, serves to stabilize the internal electronics while acting as a very effective heat sink to keep unwanted temperatures away from any signal carrying circuit.

All internal tracing and signal runs are kept as minute as possible as to not corrupt the music in any fashion. Using the newest technologies, in this case, a PCB design called Broadband Dirks' Decoupling (named for Professor Dirks) decouples the power supply up to t GHz to provide extreme electrical stability, and the lowest possibility of any electromagnetic interference.

Further care is taken by using cross regulators to stabilize the power supply of the preamplifier in the often disturbed region of 1Hz to 10MHz, thereby applying balanced current regardless of operating conditions.

The Crayon CIA-1's output stage contains current feedback, (not signal feedback), which is a new method used in output stages that we feel makes the CIA-1T all the more celebratory.

Despite common parlance, A Swiss made Switching Power Supply, and German designed controls round out what is currently our finest effort in the vast world of integrated amplifiers. We have developed this product without compromise, and feel certain that our efforts will lead you to experience your music with a viscerally present and lifelike portrayal that will be new in your experience. Your CIA-1should be with you for years. Please, should you have a minute, let us know how you like it.

Sincerely,

Roland Krammer
Principle/Chief Engineer

Unpacking

The following Accessories belong to the scope of supply of the CIA-1T;

- IEC Power Cable
- Remote Control (including 2 pcs. Type AAA Batteries)
- Instruction Manual

It is advisable to keep the original packaging in case that you have to transport the device at a later time

Voltage Selection

The power amplifier CIA-1T is equipped with a switching power supply. This power supply works at mains voltage from 115 to 230 V (50/60Hz). The mains voltage cannot be set manually on the device. The mains input voltage range covers until to 230 V mains voltage.

.

This device must be earthed. It is essential that the earthed power cable with integrally cast plug provided be used. Never use an unearthed plug or adaptor.

This device must in no case be placed on a carpet or other similar surface. The heat sink is located on the device underside. The fibers of the carpet would impede the circulation of the air and the device runs hot. Please make the device only on smooth surfaces (tabletop, shelf, wooden floor or similar).

Cleaning

Before every cleaning, make sure that the CIA-1 is disconnected from the mains supply. Remove dust and fingerprints with a soft, dry cloth. Do not use household detergents to clean of the device.

AUDIO INPUTS, OUTPUTS AND SPEAKER TERMINALS

Audio Connectors

Phono Adaptor	Chan 1 (Phono)	Chan 2 (CD)	Chan 3	Chan 4	Regulated	Unregulated Output	Right	Left

Adaptor		Phono Pickup matching (optional Phono PreAmp.) (Description on page 17)
Channel 1	unsymmetrical	Input 1 or optional Phono (Moving Magnet / Moving Coil)
Channel 2	unsymmetrical	Input 2, preferred for Compact Disk Player
Channel 3	unsymmetrical	Input 3
Channel 4	unsymmetrical	Input 4
Reg.Out	unsymmetrical	PreAmp. Output (Volume regulated output)
Unreg.Out	unsymmetrical	Output Recorder (Tape Deck, DAT or Minidisk)
Right	symmetrical	Output Speaker Right Channel (black socket = negative output red socket = positive output)
Left	symmetrical	Output Speaker Left Channel (black socket = negative output, red socket = positiv output)

Caution! The output stages are implemented as bridge circuits. Therefore, all loudspeaker sockets carry a DC voltage of approx. 19V. The loudspeakers should NOT be connected to ground. This would destroy your loudspeakers. Hence, the loudspeakers should be connected only to banana sockets pairs.

The same colour markings (red = + and black = -) are generally indicated on loudspeaker boxes.

See also side 2 (Caution)

Connectors

Mains Connection and Fuse

Mains Plug

Fuse

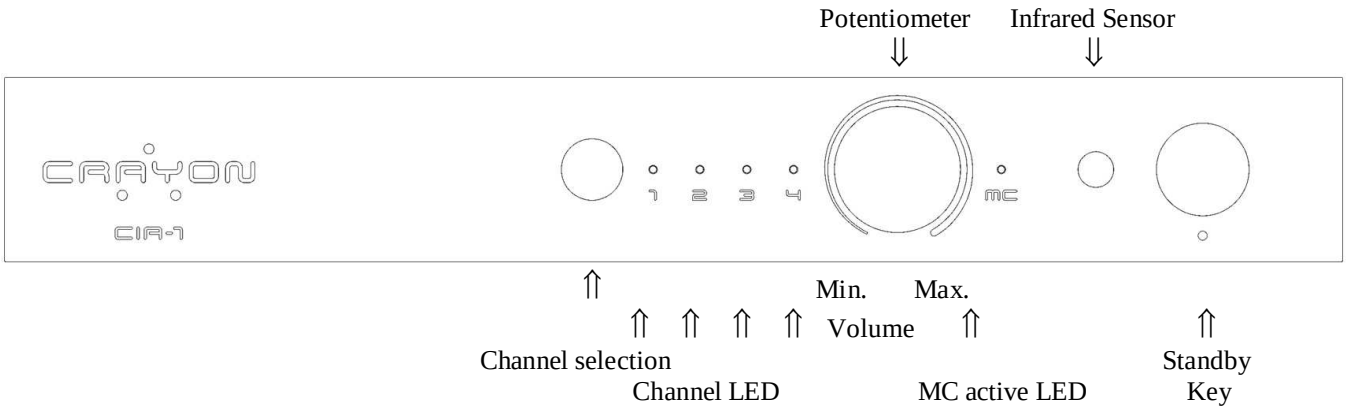
Mainswitch

Fuse	1 Fuse holders for 5x20mm Fine Fuses 10A / delay type (one reserve inside)
Mains Switch	The switch separates the Mains voltage from the internal circuit of the device
Mains Plug	Mains Plug 115 - 230 VAC

The CIA-1T must be first switched to the Standby mode and then disconnected from the Mains voltage, before connecting to or disconnecting from the connectors at the back. Otherwise, voltage surges may result which could damage the CIA-1T or other components of the audio system or AV-systems connected.

Basic Information

Display Front



Power On/Off

When you turn on the power switch on the back side, light up the [MC-LED] 3 times a second on and then the amplifier is in standby mode.

Press the Standby button on the unit or remote control. Subsequently, all 4-channel LED light up several times. Then the device is in active mode. The selected channel is displayed by the corresponding LED. The MC-LED only lights up when you had programmed the moving coil mode.

Press again the standby button on the unit or the remote control so you switch the unit back to standby mode.
The standby sequence is shown in which the channel LED 1-4 sequentially light up. Then the [MC-LED] lights 8 times on. After that the unit is in standby mode.

MM/MC Setting

To activate the MC mode of phono preamplifier, press the Channel Select button and hold it down.
Now press short the Standby button and after then release the channel select button again.
The MC-LED will now light up.
To disable the MC mode again is the same procedure to execute.

!!! Important !!! This procedure only has an effect if a phono preamplifier (Optional) was installed.

Each setting is stored in the EEPROM and retained even when the unit was turned off.

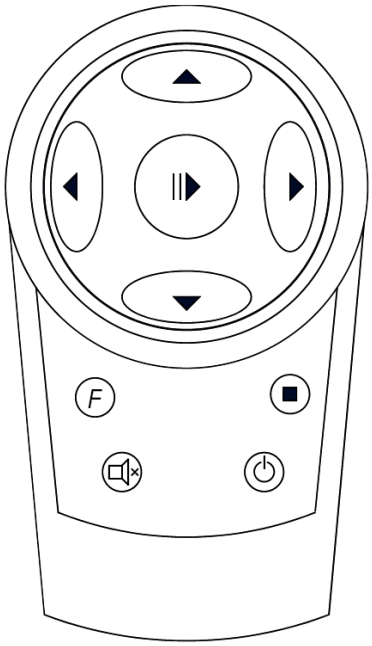
Remote Control

Channel Select +

Volume +

Volume –

Channel Select –



Standby

Mute

All the other keys have no function.

With the key [F] the function of the remote control can be switched from "amplifier" to “CD / SACD Player”. After pressing this key, the selected mode will be indicated by flashing of the LED. 2 times long flashes = Amplifier, 4 short flashes indicate the CD / SACD Player mode. The setting "Amplifier" refers to the device "CIA-1T".

Insertion and change of batteries

At the back of your remote control there is the battery compartment fitted with a screw. Remove this screw with a suitable screwdriver (PH1). Thereafter you can pull out the battery compartment of the remote control.

Please Note:
Insert the batteries according to the marks on the inside of the battery compartment. Remove immediately possibly running out batteries. Dispose the old batteries according to the instructions of the respective manufacturer.

After insertion of the batteries push the battery compartment again into the remote control and screw this together.

The remote control is powered by two 1.5 volt alkaline batteries (IEC LR 03, AAA). We recommend you to use only new batteries. In any case you should never use old and new batteries together because the efficiency of your remote control can be strongly affected and in addition, shorten the life span of the batteries substantially. After you have inserted the batteries please press a key and examine whether the red light-emitting diode lights up; this is the confirmation that the batteries were properly inserted.

Operation

Channel selection by pressing the key.

The channel selection to a channel is further switched by pressing the channel select button. After a short delay, the next audio channel is switched. If the channel 4 is turned on, the channel 1 will be activated by re-pressing the channel select button again. (1-2-3-4-1-2-3-4, etc.)

Operation

Channel selection by remote control

The remote control has 2 channel selection functions, channel selection [+] and channel selection [-] This allows you to select the channels in both directions. The procedure is otherwise the same as with the Channel Select Button on the device.

If you turn on the CIA-1T in the standby mode, the last selected channel selection in the EEPROM is stored. After restarting the device starts with the last channel setting.

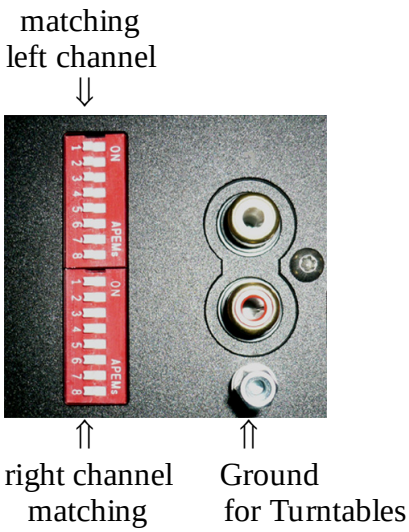
Operation

Mute

Press the Mute button on the remote, the set audio channel is switched off and indicated by a blinking channel selection LED.
Again to press the mute button will disable mute mode and switch on the audio channel again.
The mute mode is canceled by any other function too, such as channel selection or volume change using the remote control, or also by pressing the channel selector button on the device.

Adaptor

Impedance matching for Pickups



DIL-Switch

Switch 1	ON	100pF
Switch 2	ON	100pF
Switch 3	ON	50pF
Switch 4	ON	50pF + 47KOhms
Switch 5	ON	50 Ohms
Switch 6	ON	100 Ohms
Switch 7	ON	500 Ohms
Switch 8	ON	1 KOhms

When using a moving magnet pickup, switch 4 of both channels must be switched ON in any case. Thus set the inputs to 47KOhm and 47pF (Load Resistance Load Capacity). The capacity must be set as specified by the manufacturer pickup (Load Capacity). Intermediate values can be achieved by parallel connection of the capacity.
Example: required load capacity = 200pF switch 4, 3 and 2 to ON (50pF + 50pF + 100pF)
All other switches must be set to OFF.

When using a Moving Coil cartridge switch 1to 4 of both channels must be turned off (OFF).
Switch 5 to 8 are now to set, by specification of the pickup manufacturer.
Some MC pickups require a terminating resistor of 1 Kohms. The switch 8 must be switched ON.
500ohm or 100ohm and are also commonly used value.
Here, too, the intermediate values can be achieved by parallel connection.
For example, switches 7 and 8 to ON gives a resistance value of 333 ohm = 1 / (1 / T7 + 1/ R7).

Do not forget to connect the ground wire of the Turntables via the M3 screw to ground the unit.

Gain Adjustment

Gain Channel 2

left channel

right channel

⇑
Gain adjustment
for Channel 2

DIL-Switch

Switch 1	OFF	- 6dB
Switch 2	OFF	- 6dB
Switch 1	ON	0dB
Switch 2	ON	0dB

It must always use both switches with the same settings so that left and right channels have the same volume. The - 6dB setting is used for operating on CD player with output voltages greater than 2 V (RMS) too.

In the setting of 0 dB input 2 has the same gain as all other inputs.
Exception is the channel 1, if a phono preamplifier has been installed.

Technical Data: CIA-1T

General	Dimensions 60 mm (H) x 438.8 mm (W) x 312 mm (D)
	Weight 11 kg
	max. Power Consumption ca.515 W
	Fuse 2 x 230 V AC,T 10 A
	Mains voltage area 115 V bis 230 V AC

Audio Input

Inputs:	
Line (1, 3, 4):	3,1V, +12dBu
Line (2):	DIL SW 1&2 **ON** 3,1V, +12dBu
	DIL SW 1&2 **OFF** 6.15V, +18dBu
Input Impedance (Line):	15k ohms
Phono at Input 1:	(optional)
Sensitivity Phono:	4mV (MM)/ 0.45mV (MC) for nom. Output
Gain Phono @ 1kHz:	41dB (MM)/ 57dB (MC)
RIAA curve accuracy	+/-0.3dB 30Hz-20kHz

Audio Output

Unreglulated Output:	+18dBu (max)
Regulated Output:	+18dBu (max)
Power Output:	118 watts in 8 Ohm, 180 watts in 4 Ohm (Peak 196 Watt in 4 Ohm)
Frequency Response:	25Hz to 100KHz +/- 0.5dB, 6Hz to 200KHz -3dB
Signal to Noise Ratio:	>90dB Line In
Slew rate:	>25V/uS

Warranty and Customer Service

Warranty Conditions

Warranty applies to this product within the scope of the conditions in the country in which the product was purchased and your legally assured rights are not limited. In addition to the legally anchored rights, which apply to you, Crayon Audio GmbH undertakes to exchange all parts having defects resulting from faulty production. To support us, ask your Crayon retail specialist for Crayon's Warranty Program, which may apply in your country. An extended warranty may be available to customers of certain countries of Europe, America and in some other markets, who register their purchase with Crayon. A Warranty Card is delivered together with the
product and should be returned to Crayon as soon as possible with proof of purchase from retail specialist (authorized dealer).

Warning
The warranty does not apply if the product is serviced by a service provider not authorized by Crayon or is dismantled. There are no user-reparable components in the product and only an authorized service provider should be assigned to carry out any repairs.

Technical Support and Information

If you need technical support or information or for inquires with regard to the products, please contact your local specialist supplier or one of the Crayon Agencies listed below. Detailed information on local specialist suppliers / distributors are available at Crayon-Website: www.crayon-audio.com

IMPORTANT

- Keep a copy of the purchase receipt with which you can prove the date of purchase of the product.
- Make sure that device is insured when it is transported or is sent for repairs.

Product Registration

Register your product at our Website (www.crayon-audio,com) to receive our Newsletter with the latest from Crayon Audio GmbH and important information and assistance on warranty and service.

Warranty and Customer Service

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Important Safety Information

Explanation of the symbols that are used in these operating instructions and on the product:

This symbol is intended to alert the user that the case does not rest uninsulated dangerous voltages that can cause electric shock.

This symbol is intended to alert the user of important maintenance and servicing information in the instruction and service manuals.

ATTENTION
TO MINIMIZE THE RISK ELECTRIC SHOCK, DO NOT TAKE OFF THE COVER. THERE ARE NO USER SERVICEABLE COMPONENTS INSIDE.
ALWAYS ENTRUST SERVICING WORK TO CERTIFIED SPECIALIZED STAFF.
WHEN REPLACING FUSES USE THE RIGHT PROTECTION TYPE AT ALL TIMES TO AVOID FIRE HAZARD PERMANENTLY.
BEFORE REPLACING FUSES REMOVE THE POWER CABLE:

WARNING
DANGER OF ELECTRICAL SHOCK. DO NOT OPEN.
TO REDUCE FIRE HAZARD OR THE DANGER OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

MAINS PLUG
THIS DEVICE IT IS DELIVERED WITH A POWER PLUG EXCLUSIVELY FOR THE RESPECTIVE COUNTRY OF OPERATION, WHICH CANNOT BE RE-WIRED. USE ONLY THIS.

LOUDSPEAKER CONNECTION
AVOID SHORT CIRCUITS, WHEN CONNECTING THE LOUDSPEAKER. SHORT-CIRCUITING THE LOUDSPEAKER SOCKETS CAN DESTROY THIS DEVICE.

Important Safety Information

General Safety Instructions

1. Read the instructions. Read the safety instructions and the operating instructions before using this device.
2. Keep the operating instruction. Keep the security and operating instructions, for later reference.
3. Follow the warning notices. Take into consideration all warning notices on the device and in the operating instructions.
4. Follow the instructions. Adhere to all operating instructions and instructions.
5. Water and moisture. Do not operate the device not close to water, for example, near a bathtub, a washing bowl, a wash basin, a washing machine, in a humid cellar, near a swimming pool or near similar facilities.
6. Trolleys and racks. Use only carriage or racks, which are recommended by the manufacturer.
6a. A combination of device and trolley must be used with care. Quick braking, excessive effects of force and uneven surfaces possibly lead to toppling of the trolley with the device.
7. Wall-mount or Ceiling suspension. A wall-mount or ceiling suspension assembly should be carried out only according to the manufacturer's recommendation.
8. Ventilation. Place the device in such a way that the location or the position does not impair proper ventilation. For example, the device should not be placed on a Bed, Couch, Carpet or similar surface that may block the openings for ventilation. It should not also be placed in a enclosed area similar to a bookshelf or cupboard in such a manner that the airflow through the openings for ventilation are obstructed.
9. Heat. Do not place the device close to heat sources, e.g. radiators, heaters, stoves or other devices (including amplifiers), which generate heat.
10. Mains connection. Connect the device only to an electrical supply of the type, which is described in the operating instructions or indicated on the device.
11. Earthing and Non-exchangeability. Do not override safety precautions of the non-exchangeable or ground plugs . A non- exchangeable plug owns two blade-contacts and an additional ground contact on the device side, two round contacts and a ground contact on the mains connection side. The ground contact is for safety. If the provided plug does not fit in to your outlets, consult an electrician, who will replace the outdated outlets.
12. Protection of the power cable. The power cable should be routed so that it is not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the cable at plugs, power outlet, and the point where they exit from the device.
13. Cleaning. The product should be cleaned only according to the manufacturer's recommendations.
14. High voltage supply lines. An outdoor antenna should not be installed close to strong power supply lines.
15. Ground of the outdoor antenna. If an outdoor antenna is connected to the Tuner/Receiver, make sure that the antenna system is grounded as to provide protection against voltage surges and built-up static charges. In United States, Section 810 of the National Electrical Code, ANSI/NFPA No. 70, which provides information with respect to proper installation, should be observed.
16. Lightning. For added protection for this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the power outlet and disconnect the antenna system.
17. Invasion of foreign bodies and liquid. Make sure that objects of any kind or liquids enter into this equipment. Never spill or splash liquid of any kind on the device.
18. Damage requiring service. In case of following, the device must be repaired by qualified personnel:
(1) The power cable is damaged.
(2) A foreign body or liquid has penetrated into the device. (3) The device has been exposed to rain or water.
(4) The device does not seem to function properly or shows a distinct change in performance. (5) The device has been dropped, or the case has been damaged.
19. Servicing. Do not attempt to service the device beyond the instructions provided in the operating manual. All other servicing must be referred to qualified personnel.

Troubleshooting

The CIA-1T does not turn on. No LED lights:

1.) Is the CIA-1 via the IEC socket on the rear panel connected to the mains?
2.) Did you turn on the main power switch next to the IEC socket?
3.) Are the fuses in order? (See page 9)

There is no sound from both speakers:

1.) MUTE is selected? (See page 15)
2.) The volume should not be set to minimum
3.) Do you have selected the correct source and the connected device in operation?
4.) Are all RCA and speaker cable properly connected to the CIA-1?

The CIA-1T sounds dull or shrill or has too little bass:

1.) Be careful with the polarity of the speaker, as with unequal polarity speakers work against the same and so "minimize" the bass.

The connected Turntables hums or buzzes:

1.) Connect the ground or ground lead of the turntable to the Ground (GND) terminal on the rear of the amplifier.
2.) Check the terminals of the pickup, in particular that of the ground contact.

The connected turntable is too quiet or too loud does not sound right:

1.) Check the Phono settings (MC-LED). Select any MM or MC.
(See page 13)
2.) Check the Phono input matching (adapter). (See page 11)

Troubleshooting

The remote control does not work properly

1.) Check the operation of the batteries.
2.) Direct sunlight, halogen lamps and fluorescent lamps can interfere with the reception of the infrared sensor considerably. If you have created the CIA-1T in the vicinity of such interference source, this may be the cause of the restricted receiving the remote control.
3.) The remote control must be in amplifier mode (see instructions on page 12).

!ATTETION!

This device must in no case be placed on a carpet or other similar surface. The heat sink is located on the device underside. The fibers of the carpet would impede the circulation of the air and the device runs hot. Please make the device only on smooth surfaces (tabletop, shelf, wooden floor or similar).

The CIA-1T must first be switched to the standby mode and then disconnected from the mains before making any connections on the back are connected or disconnected. Otherwise, you may generate surges which could damage the CIA-1T or other components in your audio or AV system.

Accessories

Spikes

The construction of the CIA-1T decreases effects of Microphony. However, this effect can be even further reduced by means of spikes. You can order these spikes made from high-grade steel from Crayon Audio GmbH or an authorized dealer near to you. You must screw this into the foot discs (Device underside).

Audio Cable

Pay attention to the use of high-quality RCA (cinch)- and loudspeaker cables, because bad analogue audio connections impair the quality of the music signal. You can order various high-quality audio and loudspeaker cables from Crayon Audio GmbH or an authorized dealer close to you.